KOZHEVNIKOV, N.P.; D'YAKOV, G.S.; KOSAREV, A.P.; KOLIBAYEV, V.A.

Methodology of performing a stereotopographic survey at a 1:25,000 scale in desert and sandy regions. Geod.i kart. no.4: 36-40 Ap '62. (MIRA 15:12)

(Aerial photogrammetry)

KOSAREV, A.V.

Protection of internal steel pipe surfaces. Sudostroenie 29 no.2:63 F '63. (MIRA 16:2)
(Pipe, Steel) (Protective coatings)

KOSAREV, A.V., aspirant

Characteristics of carbohydrate metabolism in calves.
Veterinariia 41 no.10:50-52 O '64.
(MIRA 18:11)

1. Moskovskaya veterinarnaya akademiya.

L 45962-66 EWT(1) WW/JT

ACC NR: AT6025829 (N) SOURCE CODE: UR/3207/65/000/001/0043/0046

AUTHOR: Makhin, V. A.; Belik, N. P.; Kosarev, D. A.

59 B+1

ORG: Dnepropetrovsk State University (Dnepropetrovskiy gosudarstvennyy universitet)

TITLE: Calculation of heat transfer in straight ribs of variable thickness

SOURCE: Gidroaeromekhanika (Hydroaeromechanics), no. 1, Kharkov, Izd-vo Khar'kovskogo univ., 1965, 43-46

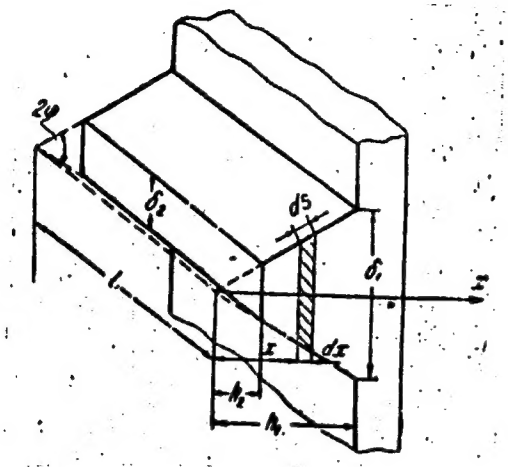
TOPIC TAGS: heat transfer coefficient, radiative heat transfer

ABSTRACT: Heat transfer through straight ribs of triangular and trapezoidal cross section is considered and the problem of optimum rib profile is solved. It is assumed in the calculations that heat from the rib is transferred to the projection of the actual exposed surface on the vertical plane, i. e. ds is assumed to be equal to dx (see figure). This assumption leads to considerable errors if there is a noticeable difference between ds and dx. It is shown that the optimum rib has a profile bounded by two arcs of radius $R=\lambda/\alpha$, where λ is the coefficient of thermal conductivity for the material of the rib and α is the heat transfer coefficient from the rib to the ambient medium. Orig. art. has: 2 figures, 11 formulas.

Card 1/2

L 45962-66

ACC NR: AT6025829



SUB CODE: 20/ SUBM DATE: None/ ORIG REF: 004/ OTH REF: 001

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Card 2/2

L 23063-66 EWT(1)/ETC(f)/EPF(n)-2/EWG(m) WW

ACC NR: AP6002002 SOURCE CODE: UR/0170/65/009/006/0788/0792

AUTHOR: Kosarev, D. A.

ORG: State University im. 300th anniversary of the Reunion of the Ukraine with Russia, Dvepropetrovsk (Gosudarstvennyy universitet im. 300-letiya vossoyedineniya Ukrainy s Rossiyey)

TITLE: Stationary heat transfer through a wall ribbed by longitudinal, rectangular fins, with a variable heat conductivity coefficient

SOURCE: Inzhenerno-fizicheskiy zhurnal, v. 9, no. 6, 1965, 788-792

TOPIC TAGS: heat conductivity coefficient, heat transfer, heat conductivity

ABSTRACT: The solution of the stationary problems of heat transfer is usually derived with the assumption that the heat conductivity coefficient is independent of the temperature. For relatively low temperature differences this assumption leads to small errors only; for large temperature differences (600—1000K), however, the error may be substantial. The author presents a graphic-analytic method of the solution of the heat-transfer problem through surfaces ribbed by longitudinal, rectangular ribs, taking into account the variable coefficient

Card 1/2 UDC: 536.244

L 23063-66

ACC NR: AP6002002

of the heat conductivity of the material. An example is worked out demonstrating the feasibility of solving the heat transfer problem taking into account the temperature-dependence of the material heat conductivity. Orig. art. has: 3 figures and 14 formulas.

SUB CODE: 20 / SUBM DATE: 05Feb65 / ORIG REF: 002 / OTH REF: 002

Card 2/2 FW

KOSAREV, D.I., inzh.

Carbonitriding at the Orel "Dormash" road machinery plant. Metalloved. i term.obr.met. no.12:29-30 D '61. (MIRA 14:12)
(Orel--Road machinery)
(Case hardening)

KOSAREV, E.; MURETOVA, K.

Economic relations of Rumania and its second five-year plan [with summary in English,p.31]. Vnesh. torg. 26 no.8:1-6 Ag '56. (MLRA 9:10)

(Rumania--Economic policy) (Rumania--Commerce)

KOSAREV, G.

Practice in consolidating industrial enterprises. Biul. nauch. inform.: trud i zar. plata 5 no.6:30-35 '62. (MIRA 15:6)
(Moscow--Industrial organization)

PETROV, Boris Petrovich; STEPANOV, Aleksandr Dmitriyevich; MINOV, D.K., prof., retsenzent; DAVYDOV, M.A., dots., retsenzent; KOSAREV, G.V., dots., retsenzent; TRAKHTMAN, L.M., dots., retsenzent; SIDOROV, N.I., red.; LARIONOV, G.Ye., tekhn. red.

[Electrical equipment and automation of electric rolling stock] Elektricheskoe oborudovanie i avtomatizatsiia elektricheskogo podvizhnogo sostava. Izd.2., perer. i dop. Moskva, Gosenergoizdat, 1963. 303 p. (MIRA 17:3)

MINOV, Dmitriy Konstantinovich; SHTERTSER, O.N., kand.tekhn.nauk, dotsent; retsenzent; KOSAREV, G.V., kand.tekhn.nauk, dotsent, retsenzent; PTITSYN, G.V., red.; BORUNOV, N.I., tekhn.red.

[Mechanical aspects of electric rolling stock] Mekhanicheskaia chast' elektricheskogo podvizhnogo sostava; ustroistvo, teoriia, proektirovanie. Moskva, Gos.energ.izd-vo, 1959. 381 p. (MIRA 12:9)

1. Leningradskiy politekhnicheskiy institut (for Shtertser).
2. Moskovskiy energeticheskiy institut im. Molotova (for Kosarev).
(Electric railroads--Rolling stock) (Streetcars)
(Trolleybuses)

YEFREMOV, I.S., doktor.tekhn.nauk, prof.; KOSAREV, G.V., kand.tekhn.nauk, dotsent

High-speed automatic group control system of the coupled TS-1 trolley bus. Elektrichestvo no.5:54-60 My '62. (MIRA 15:5)

1. Moskovskiy energeticheskiy institut.
(Trolley buses)

ALEKSEYEVA, G.Ye., kand. tekhn. nauk, dots.; MELESHKINA, L.P., dots., kand. tekhn. nauk; BALUYEV, V.K., inzh.; BAMDAS, A.M., prof., doktor tekhn. nauk; VENIKOV, V.A., prof., doktor tekhn. nauk; YEZHKOV, V.V., kand. tekhn. nauk; ANISIMOVA, N.D., dots., kand. tekhn. nauk; GANTMAN, S.A., kand. khim. nauk; GLAZUNOV, A.A., dots., kand. tekhn. nauk; GOGUA, L.K., inzh.; GREBENNICHENKO, V.T., inzh.; GRUDINSKIY, P.G., prof.; GORFINKEL', Ya.M., inzh.; ZVEZDIN, A.L., inzh.; KAZANOVICH, G.Ya., inzh.; KNYAZEVSKIY, B.A., dots., kand. tekhn. nauk; KOSAREV, G.V., dots., kand. tekhn. nauk; MESSERMAN, S.M., kand. tekhn. nauk, dots.; KOKHAN, N.D., inzh.; KUVAYEVA, A.P., dots., kand. tekhn. nauk; LASHKOV, F.P., dots., kand. tekhn. nauk; LAZIN, A.I., inzh.; YUDIN, F.I., inzh.; LIVSHITS, A.L., kand. tekhn. nauk; METEL'TSIN, P.G., inzh.; NEKRASOVA, N.M., dots., kand. tekhn. nauk; OL'SHANSKIY, N.A., dots., kand. tekhn. nauk; POLEVAYA, I.V., dots., kand. tekhn. nauk; POLEVOY, V.A., dots., kand. tekhn. nauk [deceased]; RAZEVIG, D.V., prof., doktor tekhn. nauk; RAKOVICH, I.I., inzh.; SOLDATKINA, L.A., dots., kand. tekhn. nauk; TREMBACH, V.V., dots., kand. tekhn. nauk; FEDOROV, A.A., prof., kand. tekhn. nauk; FINGER, L.M., inzh.; CHILIKIN, M.G., prof., doktor tekhn. nauk, glav. red.; ANTIK, I.V., inzh., red. GOLOVAN, A.T., prof., red.; PETROV, G.N., prof., red.; FEDOSEYEV, A.M., prof., red.

(Continued on next card)

ALEKSEYEVA, G.Ye.---- (continued). Card 2.

[Electrical engineering manual] Elektrotekhnicheskii spravochnik. Pod obshchei red. A.T. Golovana i dr. Moskva, Energiia. Vol.2. 1964. 758 p. (MIRA 17:12)

1. Moscow. Energeticheskiy institut. 2. Moskovskiy energeticheskiy institut (for Golovan, Grudinskiy, Petrov, Fedoseyev, Chilikin, Venikov). 3. Chlen-korrespondent AN SSR (for Petrov).

KOSAREV, I.

With joint efforts. Voen.znan.31 no.8:8 Ag'55. (MLRA 8:12)

1. Predsedatel' komiteta pervichnoy organizatsii Dobrovol'nogo obshchestva sodeystviya armii, aviatsii i flotu, Moskva.
(Military education)

SIDICHKIN, A.; KOSAREV, I.

First steps. Kryl.rod. 8 no.3:7-8 Mr '57. (MLRA 10:5)

1.Sekretar' komiteta Vsesoyuznogo Leninskogo Kommunisticheskogo soyuza molodezhi. (for Sidichkin) 2. Predsedatel' komiteta Dobrovol'nogo obshchestva sodeystviya armii, aviatsii i flotu (for Kosarev)

(Parachutists)

PIMENOV, V.(Leningrad); KOSAREV, I.(Moskva).

All-Union Spartakiada of Communist Youth Leaguers and Youth in Military Sports. Voen. znan. 34 no. 5:12-13 My '58. (MIRA 11:7)

1. Sekretar' komiteta Vsesoyuznogo Leninskogo kommunisticheskogo soyuza molodezhi zavoda "Elektrosila" imeni S.M.Kirova(for Pimenov).
2. Predsedatel' komiteta pervichnoy organizatsii Dobrovol'nogo obshchestva sodeystviya armii, aviatsii i flotu myasokombinata imeni A.I.Mikoyana(for Kosarev).

(Sports)
(Military education)

KOSAREV, I.

Our glorious traditions are multiplying. Voen. znan. 37 no. 2:23-24 F '61. (MIRA 14:1)

1. Predsedatel' komiteta Dobrovol'nogo obshchestva sodeystviya armii, aviatsii i flotu Moskovskogo myasokombinata imeni A.I. Mikoyana.

(Military education)

KOSAREV, I.

To new goals. Voen.znan. 38 no.1:15-16 Ja '62. (MIRA 15:2)

1. Predsedatel' komiteta pervichnoy organizatsii Dobrovol'nogo obshchestva sodeystviya armii, aviatsii i flotu moskovskogo myasokombinata imeni A.I. Mikoyana.
(Military education)

KOSAREV, I.

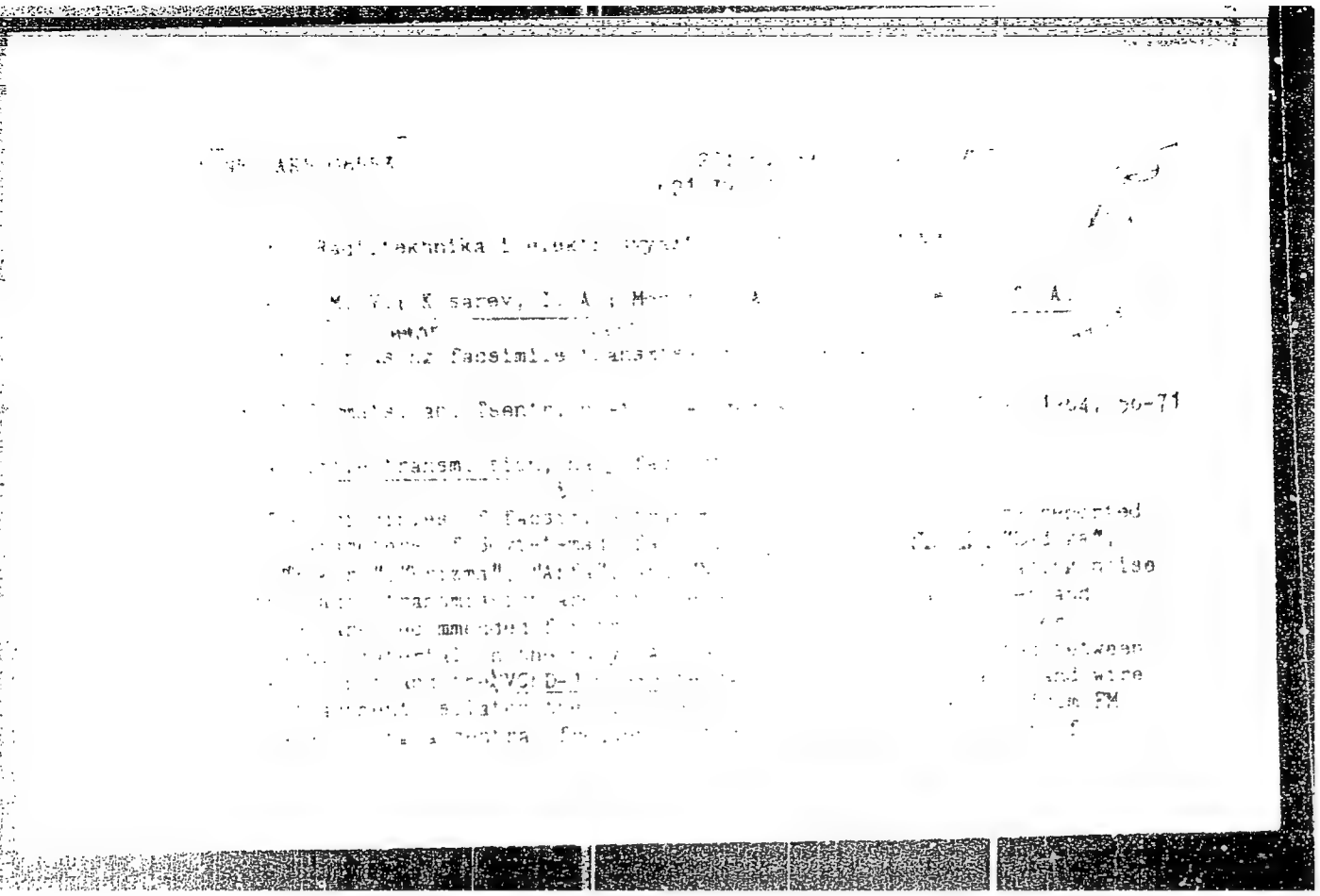
On special dates. Voen. znan. 38 no.11:23-24 N '62. (MIRA 15:11)

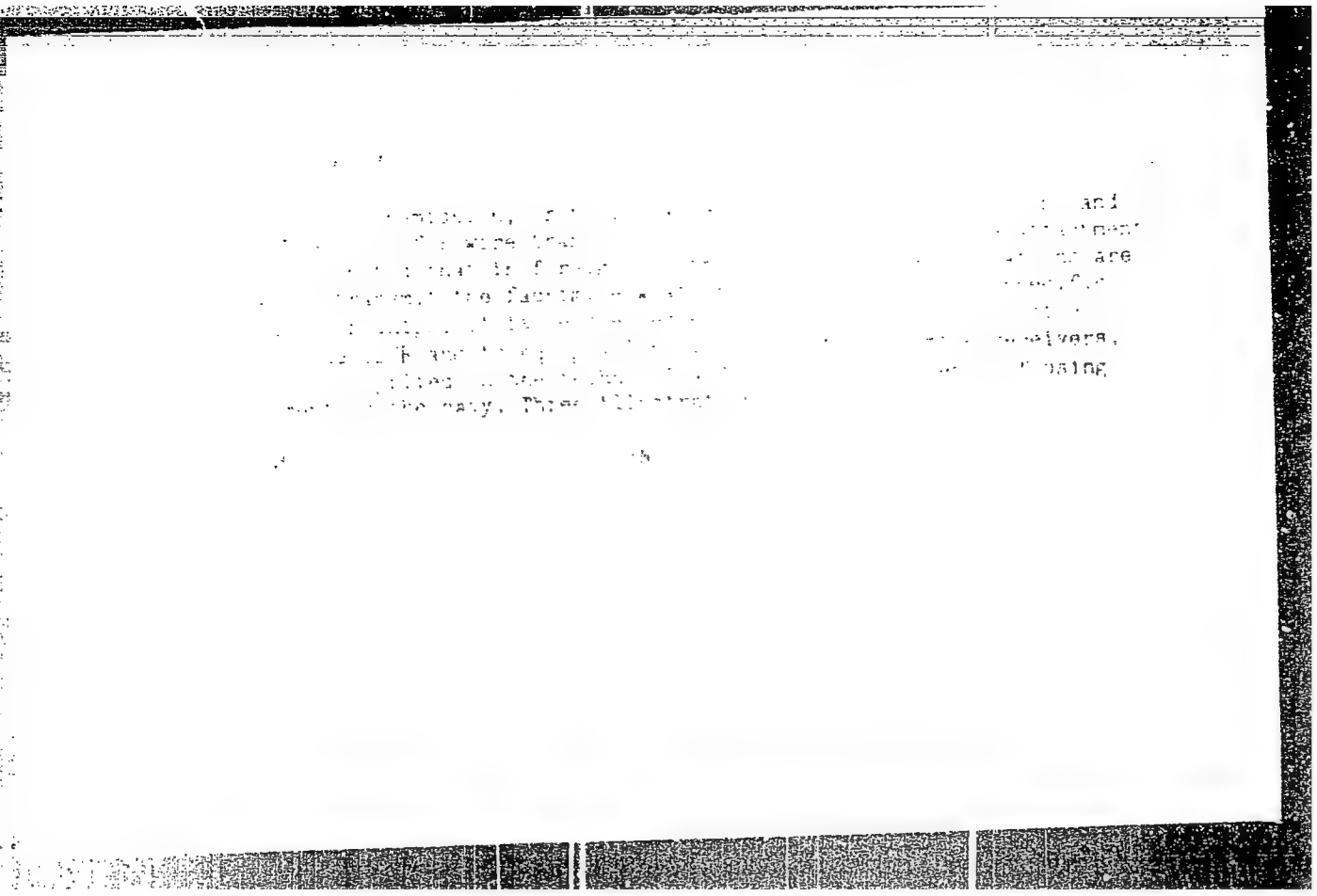
1. Predsedatel' komiteta pervichnoy organizatsii Dobrovol'nogo obshchestva sodeystviya armii, aviatsii i flotu Moskovskogo myasokombinata.
(Military education)

KOSAREV, I.

Under the flag of the Spartakiada. Voen.znan. 39 no.9:15-16 S '63. (MIRA 16:10)

1. Predsedatel' komiteta pervichnoy organizatsii Dobrovol'nogo obshchestva sodeystviya armii, aviatsii i flotu Moskovskogo myasokombinata.





VERSHKOV, M.V., kand. tekhn. nauk; KOSAREV, I.A.; SHABANOV, L.G.

Scale for the determination of distaces between objects visible on the video control screen of a ship's television set. Inform. sbor. TSNIIMF no. 120. Sudovozh. i sviaz' no. 27:64-73 '64
(MIRA 19:1)

KOSAREV, L.I.; SUKHORUKOV, V.Ya.

Capacitor batteries used as current converters. Put' i put. khoz. no.4:12-14 Ap '58. (MIRA 11:4)

1. Glavnyy inzhener putevoy dorozhnoy masterskoy, stantsiya Bryansk-L'govskiy (for Kosarev). 2. Nachal'nik otdela mekhanizatsii sluzhby puti, stantsiya Bryansk-L'govskiy (for Sukhorukov).
(Condensers (Electricity)) (Electric current converters)
(Railroads--Electric equipment)

KOSAREV, L.I.

Inventiveness of efficiency promoters. Put' i put. khoz. no.5:36-38 My '58. (MIRA 13:3)

1.Glavnyy inzhener putevoy dorozhnoy masterskoy, stantsiya Bryansk-L'govskiy.
(Railroads--Technical innovations)

KOSAREV, L.M.

DMITRIYEV, A.A., inzhener; KOSAREV, L.M., inzhener.

Multipurpose stamping dies. Izobr. v SSSR no.1:26-29 Jl '56. (MIRA 10:3)

(Dies (Metalworking))

KOSAREV, L.P., inzh. (g.Luganak)

Remote control of central underground substations in coal mines. Ugol' 35 no.1:29-30 Ja '60. (MIRA 13:5)
(Remote control) (Luganak Province--Electricity in mining)

1. KOSAREV, M.

2. USSR (600)

4. Wheat Grass

7. Instructions for field tests on wheat grass. Sel. i sem. 20, No. 5, 1953.

9. Monthly List of Russian Accessions, Library of Congress, April 1953. Unclassified.

KOSAREV, M.

Work experience of the Frunzeugol' Trust in mastering the rated capacity of all its mines. Ugol' 39 no.8:31-32 Ag '64. (MIRA 17:10)

1. Upravlyayushchiy trestom Frunzeugol'.

KUSAKEV, M. G. and MACHUL'SKIY, S. N.

"Microscopy data on kerato-conjunctivitis in sheep," Trudy Buryat-Mongol. Zoovet. in-ta, Issue 4, 1948, p. 68-72

SO: U-3850, 16 June 53, (Letopis 'Zhurnal 'nykh Statey, No. 5, 1949).

KOSAREV, M. G.

"The use of a complement computation formula for the main complement fixation test," Trudy Buryat-Mongol Zoovet, in-ta, Issue 4, 1948, p. 148-49

SO: U-3850, 16 June 53, (Letopis 'Zhurnal 'nykh Statey, No. 5, 1949).

KOSAREV, M.K.; YESENKOV, V.M.

Work practices of the Frunzeugol' Trust mines in rapid mining of development workings. Ugol' 40 no.6:18-19 Je '65. (MIRA 18:7)

1. Trest Frunzeugol'.

KOSAREV, M.K.; YESENKOV, V.M.

Wear of the sections and chains of the SKR-20 conveyor in transporting anthracite. Ugol' 38 no.6:35-37 Je '63. (MIRA 16:8)

1. Trest Frunzeugol'.
(Conveying machinery) (Mechanical wear)

KOSAREV, M.S.

Temperature pickup. Trudy VNIING no.2:108-111 '63.
(MIRA 17:5)

KOSAREV, M.S.

Temperature gauge. Trudy VNIING no.2:108-111 '63. (MIRA 17:10)

KOSAREV, M. V. PA 237T69

USSR/Geophysics - Snow Gauge Dec 52

"Certain Changes in Design of the Field Weighing Snow-Gauge," M. V. Kosarev, Tashkent Sci-Res Geog Observatory

"Meteorol i Gidrol" No 12, pp 43, 44

Proposes changes that would permit quicker and more accurate test of water content at all times, for which height and composition of the snow cover are found.

237T69

KOSAREV, M.V.

Glaciers of the Shakhimardan River Basin. Geog.sbor. 4:82-89 '54.
(MLRA 7:9)
(Shakhimardan Valley--Glaciers) (Glaciers--Shakhimardan Valley)

Косарев, М.В.

KOSAREV, M.V.

Data on glaciers of the Kashka-Darya. Trudy Tashk.geofiz.obser. no.10:129-152 '54. (MLRA 8:11)
(Kashka-Darya--Glaciers)

KOSAREV, M. V.

"Problem of the Possible Determination of the Thickness of Snow Cover in the Upper Zone of a Mountain Valley From Data of Measurements of the Snow in the Lower Zone of the Same Valley"
Trudy Tashkentsk. Geofizich. Observ., No 19, 1954, 171-175

The indicated measurements in the course of three winters were conducted by the Tashkent Scientific-Research Geophysical Observatory (beginning in 1950) in the valley of the Kzylch River. The basin of this valley is about 50 square kilometers, the snow cover lies comparatively uniformly, the winds are weak, and the solar radiation does not cause any essential thawing of the snow. From the established gradient of water content of the snow, and from measurements at extreme snow points (highest and lowest) one can compute the water content of the snow for the remaining intermediate points. Computed data gove good agreement with measered quantities. Studies are continuing

SO: Sum-No 845, 7 Mar 56

KOSAREV, M.V.

Principal results of the study of snow survey methods used in the Kzylcha River Basin. Trudy Tashk.geofiz.obser.no.15:3-43 '57. (MIRA 10:11)

(Kzylcha Valley--Snow)

1. KHARCHEVNIKOV, S., KOSAREV, N., SOLODILOV, N.

2. USSR (600)

4. Coal - Transportation

7. Strengthening our cooperation in the performance of labor tasks. Mast. Ugl. 1, no. 8, 1952.

9. Monthly List of Russian Accessions, Library of Congress, February 1953. Unclassified.

KOSAREV, N.

A good aim. Mast. Mast. lesa 2 no.7:3-4 Jl '58. (MIRA 11:9)

1.Nachal'nik nizhnego sklada Semigorodnego lespromkhoza, Vologodskaya oblast'.
(Lumbering)

KOSAREV, N.D., inzh.

Automatic ventilation door with an electric drive. Bezop. truda v prom. 3 no.10:32 O '59. (MIRA 13:2)
(Mine ventilation)

ROGOZHIN, Ye.A.; KOSAREV, N.D., inzh.; BABETS, Yu.; STORCHAK, K.; TERESHCHENKO, N.I., burovzryvnik; MAKAROV, V.M.; BRAUN, P.P.; KUKLIN, A.D.

Reader's letters. Bezop.truda v prom. 4 no.12:36-37 D '60. (MIRA 14:1)

1. Gornotekhnicheskiy inspektor upravleniya Groznenskogo okruga Gosgortekhnadzora RSFSR (for Rogzhin). 2. Rudnik im. Gubkina (for Kosarev). 3. Glavnyy inzhener shakhty "Krasnolimanskaya" tresta Krasnoarmeyskugol' (for Storchak). 5. Uchastok No.15-16 Krasnodarvzryvproma (for Tereshchenko). 6. Glavnyy inzhener shakhty "Baydayevskiye uklony" (for Makarov). 7. Zaveduyushchiy zdravpunktom shakhty "Baydayevskiye uklony" (for Braun). 8. Zamestitel' glavnogo inzhenera po tekhnike bezopasnosti tresta Kazzoloto (for Kuklin).
(Industrial safety)

LEONT'YEV, S.N., kand.tekhn.nauk; KOSAREV, N.F., inzh.; SOLNTSEV, A.M.; KALABIN, V.I.

Rapid shaft sinking at the No.2 "Abashevskaia" coal mine. Shakht. stroi. 9 no.8:21-24 Ag '65. (MIRA 18:8)

1. Kemerovskiy gornyy institut (for Leont'yev). 2. Novokuznetskoye shakhtostroyupravleniye (for Kosarev). 3. Nauchno-issledovatel'skiy institut stroitel'stva ugol'nykh i gornorudnykh predpriyatiy, Kemerovo (for Solntsev, Kalabin).

inzh.;

USSR/Cultivated Plants - Grains. II-4

Abs Jour : Ref Zhur - Biol., No 9, 1958, 39250

Author : Kosarev, N.I.

Inst : Scientific Research Institute of Agriculture of the Central Chernozem Belt.

Title : Prospective Rice Hybrids.

Orig Pub : Byul nauchn.-tekhn. inform. n.-i. in-ta s. kh., TsChP, 1956, No 1, 35.

Abstract : The following prospective rice hybrids for the irrigated regions of the south of the Central Chernozem Belt Rostov, Stalingrad oblasts', Ukrainian and Kazakh SSR were obtained by the Department of Selection and Seed Growing of the Institute of Agriculture of the Central Chernozem Belt in 1953-1955 and were found to require less water: Voronezhskiy 50, Voronezhskiy 3, Voronezhskiy 2, Voronezhskiy 237

Card 1/2

KOSAREV, N. N.

"On the Role of Laboratory Workers in Fulfilling Scientific Research on Problems of Epidemiology, Microbiology, and Hygiene," a report given at the first republic scietific-practical conference of physician-bacteriologists of the Scientific Research Institute of Epidemiology, Microbiology, and Hygiene of the Ministry of Health, Azerbaydzhan SSSR held in Baku, 25 Apr 56.

SUM: 1360 p. 239

KOSAREV, N.N.; MAKOVSKIY, S.A.

Removing paraffin from bottom hole areas by electric heat.
Neft.khoz. 37 no.3:56-58 Mr '59. (MIRA 12:5)
(Paraffins) (Electric heating)

OGANOV, K.A.; KOSAREV, M.N.

Thermal methods of increasing the recovery factor by means of in-situ combustion of gas-air mixtures. Trudy UkrNIGRI no.7:257-265 '63. (MIRA 19:1)

OGANOV, K.A.; MAKOVSKIY, S.A.; KOSAREV, N.N.

More about creating a mobile focus of fire in a porous medium of a layer. Neft. khoz. 38 no.4:14-20 Ap '60. (MIRA 14:8)
(Oil fields--Production methods)

KOSAREV, O., shturman; GVIL'DIS, B., bortmekhanik (Irkutsk); KORNEV; LOZOVSKIY; KUZ'MIN, starshiy inzhener-ekonomist; MESILOV, Yu., aviatekhnik; FROLENKO, N. (Novosibirsk); KHALIULLIN, R. (Verkhniye Kigi, Bashkirskoy ASSR); ZOSIMOV, V. (g. Klintsy, Bryanskoy oblasti)

Public inspection is in action. Grazhd. av. 20 no.6:28 Je '63. (MIRA 16:8)

1. Obshchestvennyy inspektor po bezopasnosti poletov, Novosibirsk (for Kosarev).
(Aeronautics, Commercial)

KOSAREV, P.A.

ANTIPOV, E.F., S.A. MAIOROV, and P. A. KOSAREV.

Giroskopicheskie aviatsionnye pribory. Moskva, 1940.

Title tr.: Gyroscopic aircraft instruments.

NCF

SO: Aeronautical Sciences and Aviation in the Soviet Union, Library of Congress, 1955

BORMOTOV, P.N., inzh.; GRISHIN, S.S.; ANTIPOV, Yu.; VITRIK, E.V., inzh.; KOSAREV, P.S.; NEKHOROSHEV, A.I.; RYABTSEV, G.I.; KOTOV, S.F.; SHARAGIN, M.A., gornospasatel' (Komi ASSR, g. Ukhta)

On P.M. Solvev'ev's article "Improve the design of the SP-55M self-rescuers." Bezop.truda v prom. 6 no.7:9-11 Jl '62. (MIRA 15:7)

1. Tekhnicheskoye upravleniye Kombinata ugol'nykh predpriyatiy Kuznetskogo kamennougol'nogo basseyna (for Bormotov). 2. Master shakhty im. Lenina Makeyevskogo tresta ugol'noy promyshlennosti Donbassa (for Grishin). 3. Komandir vzvoda voyenizirovannoy gornospassatel'noy chasti, pos.Zarubino, Novgorodskoy oblasti (for Antipov). 4. Shakhta No.24, Lubanskaya oblast' (for Vitrik). 5. Zaveduyushchiy gornymi rabotammi Nikitovskogo dolomitnogo kombinata (for Kosarev). 6. Komandir otdeleniya No.8 VGSO, g. Shakhty, Rostovskaya obl. (for Nekhoroshev). 7. Komandir gornospasatel'nogo otdeleniya, g. Shakhtersk, Donetskaya obl. (for Ryabtsev). 8. Zamestitel' glavnogo inzh. shakhty No.29 "Kapital'naya" Chelyabinskogo kombinata ugol'nykh predpriyatiy Ministerstva ugol'noy promyshlennosti SSSR (for Kotov).
(Respirators) (Solovev, P.M.)

SYSUYEV, V., inzh. (Penzenskaya obl.); KRIVENKO, V., inzh. po ratsionalizatsii i izobretatel'stvu (Zaporozh'ye); KRIVOSHEYEV, V., inzh. (Khar'kov); KOSAREV, S.; SIDORKIN, G., mekhanik (Ashkhabad)

Conceived and realized. Izobr. i rats. no.12:24-25 '63.
(MIRA 17:2)

1. Upravlyayushchiy trestom "Grazhdanstroy" Udmurtskogo soveta narodnogo khozyaystva (for Kosarev).

KOSAREV, S.

Driving piles into frozen ground with the help of a barlike device. Osn., fund. i mekh. grun. 5 no.5:23 '63.
(MIRA 16:10)

L 04453-67 EWT(m)/T DJ

ACC NR: AP6014146 (A) SOURCE CODE: UR/0143/65/000/012/0021/0024

AUTHOR: Filippov, G. A. (Engineer); Konovalov, B. Ya. (Engineer); Kosarev, S. B. (Engineer)

22
B

ORG: Ivanovo Power-Engineering Institute imeni V.I. Lenin (Ivanovskiy energeticheskiy institut)

TITLE: Effect of voltage ripple ratio on electric strength of transformer oil

SOURCE: IVUZ. Energetika, no. 12, 1965, 21-24

TOPIC TAGS: transformer oil, power rectifier, voltage ripple ratio

ABSTRACT: The results of an experimental study of the electric strength of transformer oil are reported. Dry transformer oil was humidified or contaminated and its breakdown strength was determined. The dissolved (not emulsified) water caused a very considerable reduction of the electric strength: from 70—80 kv down to about 30 kv for moisture content from 0 to 0.007%. The reduction of the electric

Card 1/2 UDC: 621.315.615.2.015.5

L 04453-67

ACC NR: AP6014146

strength at ac is somewhat less than at dc or ripple voltages. For any constant moisture content, the coefficient k increases with the ripple ratio: $k = U_r / U_{ac}$, where U_r and U_{ac} are the maximum breakdown ripple and a-c voltage, respectively. Also, curves of breakdown voltage vs. ripple ratio for various contaminations of the transformer oil with cellulose fiber are shown. The maximum reduction of the oil electric strength at ripple voltage, as compared to that at ac, was noticed at zero ripple ratio. Orig. art. has: 5 figures and 3 formulas.

SUB CODE: 09 / SUBM DATE: 26Nov64 / ORIG REF: 004 / OTH REF: 002

Card 2/2 egh

FILIPPOV, G.A., inzh.; KONOVALOV, B.Ya., inzh.; KOSAREV, S.B., inzh.

Effect of the voltage fluctuation factor on the electrical strength of transformer oil. Izv.vys.ucheb.zav.; energ. 8 no.12:21-24 D '65. (MIRA 19:1)

1. Ivanovskiy energeticheskiy institut imeni V.I.Lenina.
Submitted November 26, 1964.

1. Malkis, A. M, KOSAREV, S. I.

2. USSR (600)

(Khtz) (Kharkov Tractor Plant)
"Increasing the Productivity of the Barber-Coleman Hobbing Machine", Stanki i Instrument, 12, No. 1, 1941

9. [redacted] Report U-1503, 4 Oct 1951.

KOSAREV, V.

Creative achievements of efficiency promoters in Kiev shoe interprises. Kozh.-obuv.prom. no.6:10 Je '59. (MIRA 12:9)

1. Sekretar' Kiyevskogo oblastnogo soveta Vsesoyuznogo obshchestva izobretateley i ratsionalizatorov. (Kiev--Shoe industry)

KOSAREV, V.

Come back to clay roofing tile. Izobr. i rats. no.7:14 Jl '62.
(MIRA 16:3)

1. Sekretar' oblastnogo soveta Vsesoyuznogo obshchestva izobretateley i ratsionalizatorov, Kiyev.
(Tiles, Roofing)

KOSAREV, V. A.

KOSAREV, V. A. Use of formalin and neutro-acriflavine in piroplasmosis of horses-anemochronics.

So: Veterinariya; 23; 2-3; February/March 1946; Uncl.
TABCON

KOSAREV, V.A., kandidat veterinarnykh nauk.

Effect of growing corn and onion on the anthrax bacillus. Veterinariia 33 no.9:66-68 S '56. (MLRA 9:10)

1.Respublikanskaya vetbaklaboratoriya Mordovskoy ASSR.
(Anthrax) (Corn (Maize)) (Onions)

Kosarev, V. A.

PHASE I BOOK EXPLOITATION SOV/5411

Konferentsiya po fiziko-khimicheskim osnovam proizvodstva stali. 5th, Moscow, 1959.

Fiziko-khimicheskiye osnovy proizvodstva stali; trudy konferentsii (Physicochemical Bases of Steel Making; Transactions of the Fifth Conference on the Physicochemical Bases of Steelmaking) Moscow, Metallurgizdat, 1961. 512 p. Errata slip inserted. 3,700 copies printed.

Sponsoring Agency: Akademiya nauk SSSR. Institut metallurgii imeni A. A. Baykova.

Responsible Ed.: A. M. Samarin, Corresponding Member, Academy of Sciences USSR; Ed. of Publishing House: Ya. D. Rozentsveyg. Tech. Ed.: V. V. Mikhaylova.

Card 1/16

Physicochemical Bases of (Cont.) SOV/5411

AVAILABLE: Library of Congress

VK/wrc/bc
10/3/61

Card 16/16

Kosarev, V.A.

25(2)

SOV/19-59-7-257/369

AUTHORS: Mikulinskiy, A.S., Kosarev, V.A. and Selyanskiy, A.P.

TITLE: A Sliding Gate

PERIODICAL: Byulleten' izobreteniy, 1959, Nr 7, p 53 (USSR)

ABSTRACT: Class 47g, 26_{02}. Nr 119044 (610192 of 22 October 1958). 1) The above sliding gate with a wedge-shaped lock is sealed, when shut, with an elastic gasket. The gasket attaches to the seat of the body and is expanded inside by the pressure of a liquid or gas medium. In order to protect the gasket from the heat, the hollow seat carrying gasket is filled with a substance circulating through its cavity. 2) The lock being opened, the gasket is protected from the lock's heat with a sliding shield, inserted between the lock and the gasket.

Card 1/1

8(4) SOV/19-59-4-180/317

AUTHORS: Mikulinskiy, A.S., and Kosarev, V.A.

TITLE: An Electric Vacuum Furnace

PERIODICAL: Byulleten' izobreteniy, 1959, Nr 4, p 39 (USSR)

ABSTRACT: Class 40c, 16_{01}. Nr 118087 (596547 of 7 April 1958).
An electric continuous-operation vacuum furnace, for obtaining volatile metals and for the heat-treatment of materials, consisting of a charging and preheating chamber, a reaction chamber, and a discharging chamber. To enable continuous operation, the reaction chamber is provided with a twin-bell hood containing an inner and an outer bell with two corresponding shutters. The inner shutter is in a liquid state during the furnace operation and the outer one in a solid state.

Card 1/1

25(2) SOV/19-59-3-6/306

AUTHORS: Mikulinskiy, A.S., and Kosarev, V.A.

TITLE: A High-Temperature Seal for Vacuum Furnaces

PERIODICAL: Byulleten' izobreteniy, 1959, Nr 3, p 8 (USSR)

ABSTRACT: Class 4c, 18. Nr 117795 (598726 of 4 May 1958). 1) A seal in the form of an overturned cup loosely set into the vertical nipple on the furnace top and lowered into a pool of molten metal. The molten metal can be cooled to a solid state if necessary. 2) The seal is provided with heaters and coolers for a fast fusing or solidification of the seal metal.

Card 1/1

AUTHORS: Mikulinskiy, A.S., and Kosarev, V.A. SOV-19-58-2-46/551

TITLE: A Vibrating Electric Shaft-Furnace (Vibratsionnaya shakhtnaya elektricheskaya pech')

PERIODICAL: Byulleten' izobreteniy, 1958, Nr 2, p 15 (USSR)

ABSTRACT: A vibrating electric shaft-furnace (Registration of Inventions Class 12g, 201. Nr 111043) for obtaining volatile light metals, consisting of a housing with a heater and provided with a vibrator with a spring in the bottom (cold) portion of the housing. Heater elements, e.g. nichrome spirals, are inserted into pipes and placed within the furnace. The vibrator prevents clotting and sintering of the charge and of the residues.

1. Electric furnaces--Design 2. Electric furnaces--Equipment
3. Vibration mechanisms--Applications 4. Vibration mechanisms--Performance

Card 1/1

YEVREINOV, Eduard Vladimirovich; KOSAREV, Yuriy Gavriilovich; KOBKOVA, V.I., red.

[Prospects for designing high-speed computer systems]O vozmozhnosti postroeniia vychislitel'nykh sistem vysokoi proizvoditel'nosti. Novosibirsk, Izd-vo Sibirskogo otd-niia AN SSSR, 1962. 39 p. (MIRA 15:10)
(Electronic calculating machines)

YEVREINOV, E.V.; KOSAREV, Yu.G.; USTINOV, V.A.

Calculating technique in historicophilological research. Vest. AN SSSR 32 no.1:80-83 Ja '62. (MIRA 15:1)
(Electronic calculating machines) (Picture writing, Maya)

YEVREINOV, E.V. (Novosibirsk); KOSAREV, Yu.G. (Novosibirsk)

Computer systems with high productive capacity. Izv. AN SSSR. Tekh. kib. no.4:3-25 Jl-Ag '63. (MIRA 16:11)

YEVREINOV, E.V.; KOSAREV, Yu.G.

Methodology for developing computer systems. Vych. sist. no. 6: 5-20 '63. (MIRA 17:9)

YEVRENINOV, E.V.; KOSAREV, Yu.G.

Systems for the automation of scientific experiments in computer development. Vych. sist. no.8:3-10 '63. (MIRA 17:12)

KOSAREV, Yu.G.

Methodology for solving problems using universal computers. Vych. sist. no.17:61-100 '65. (MIRA 18:9)

YEVREINOV, E.V.; KOSAREV, Yu.G.

Matrix P-language for the description of parallel algorithms. Vych. sist. no.17:100-105 '65.

Solution of problems using universal computer systems. Ibid.:106-164 (MIRA 18:9)

L 22216-66 EWT(d)/EWP(l) IJP(c) GD/GG

ACC NR: AP6002936 (A) SOURCE CODE: UR/0286/65/000/024/0103/0103

AUTHORS: Yevreinov, E. V.; Kosarev, Yu. G.

ORG: none

TITLE: A universal element for computers. Class 42, No. 177163 [announced by Institute of Mathematics SO AN SSSR (Institut matematiki SO AN SSSR)]

SOURCE: Byulleten' izobreteniy i tovarnykh znakov, no. 24, 1965, 103

TOPIC TAGS: flexible element, electronic computer, electronic circuit

ABSTRACT: This Author Certificate presents a universal element for computers. The element contains "AND" logic circuits, "NO" logic circuits, and triggers. The design increases the flexibility of electronic computers. The outputs of the first and second memory stages for the storage of the command are connected to the two inputs of the first rectifier, while the third input of this rectifier is connected to the first output of the element (see Fig. 1). The output of the second memory stage is connected to the second rectifier. The second input of the second rectifier is connected with the first source of the logic signal. The output of the first memory stage is connected to the third rectifier. The second rectifier is connected with the second source of the logic signal. The outputs of all three of these rectifiers are connected to the first inverter. The output of this inverter is connected to the second output of the element. The output of the third and fourth memory stages, and also

Card 1/2 UDC: 681.142

Card 2/2 UDC

L 05390-67 EXT(BF)
ACC NR: AR6015990 SOURCE CODE: UR/0044/65/000/011/V038/V038

AUTHORS: Yevreinov, E. V.; Kosarev, Yu. G.

TITLE: Certain simple realizations of a computing medium

SOURCE: Ref. zh. Matematika, Abs. 11V274

REF SOURCE: Sb. Vychisl. sistemy. Vyp. 16. Novosibirsk, 1965, 73-86

TOPIC TAGS: computer logic, computer theory

ABSTRACT: The authors describe certain results obtained in an investigation of the possibility and suitability of simulating a computing medium on readily available elements. They describe models of the computing medium using ordinary relays; the models are of intrinsic practical interest as a universal structure making it possible to construct a realization of a scheme of any simple automaton. The models can also be used as simple teaching machines of the type "examiner" and "repeater." Also, they can serve as a "logical constructor" for satisfying functions of algebraic logic, finite automata, graphs, etc. The authors describe two types of universal logical constructors prepared by the experimental workshops IM SO AN SSSR. Examples are given of the solution of some elementary problems with the help of the logical constructors. 8 illustrations. Bibliography of 4 titles. V. M. [Translation of abstract]

SUB CODE: ~~12~~ 09

UDC: 681.142.001.12:511.1

Card 1/1 fdh

L 08589-67 ENT(d)/ENP(1) IJP(c) GG/BB

ACC NR: AR6029276 SOURCE CODE: UR/0044/66/000/006/V048/V049

AUTHOR: Yevreinov, E. V.; Kosarev, Yu. G.

38
B

TITLE: The solution of problems on universal digital computer systems 16C

SOURCE: Ref. zh. Matematika, Abs. 6V330

REF SOURCE: Sb. Vychisl. sistemy. Vyp. 17. Novosibirsk, 1965, 106-164

TOPIC TAGS: algorithm, machine language, computer application, digital computer numerica solution

ABSTRACT: The feasibility of the efficient solution of problems on universal computer systems with a large number of machines has been investigated. For that purpose the paper presents 16 types of problems covering the basic fields of mathematics: 1. The solution of a system of linear equations by means of successive approximations. 2. The inversion of matrices by the method of approximations. 3. The evaluation of eigenvalues of matrices using the Danilevskiy method. 4. The solution of the general problem of linear programming by the modified simplex method. 5. The solution of the general transport problem. 6. The problem of numerical differentiation. 7. The problem of numerical integration. 8. The solution of the Cauchy problem for the system of differential equations by the Runge-Kutta method. 9. The solution of the boundary problem for a system of linear differential equations by the method of

Card 1/2 UDC: 518.5:681.142

L 08589-67

ACC NR: AR6029276

conjugate equations. 10. The boundary problem for nonlinear equations. 11. The solution of the Dirichlet problem for elliptical equations by the interaction method. 12. The boundary problem for parabolic equations. 13. The Cauchy problem for linear differential equations of the hyperbolic type. 14. The method of statistical solutions. 15. The problem of the theory of statistical solutions. 16. Information-logical problem. These problems were solved with the help of the best-known methods for their solution. The paper gives the estimate of the number of cycles needed for the solution of each of the particular problems and the necessary memory volume. For each type of problem, the logical scheme of the algorithm is also found, described by means of the P-language. Simultaneously, for each of the problems one searches for such a number k > 1 of machines entering into the universal computer system that the problem is solved on such a system k times faster than on a single machine. It is assumed that each machine entering into the universal computer system has a set of operations determined by the totality of problems which are being solved.
[Translation of abstract] Ye. Kopninskiy

SUB CODE: 09,12

Card 2/2

ACC NR: AR6026520 SOURCE CODE: UR/0372/66/000/004/V033/V034

AUTHOR: Kosarev, Yu. G.

TITLE: Methods of solution of problems with the aid of universal computing systems

SOURCE: Ref. zh. Kibernetika, Abs. 4V205

REF SOURCE: Sb. Vychisl. sistemy. Vyp. 17. Novosibirsk, 1965, 61-99

TOPIC TAGS: algorithm, computer logic, set theory, computer program

ABSTRACT: Suppose an algorithm is written as a finite row consisting of a specified set of operators (A_1, A_2, ..., A_n), left- and right-hand half-brackets $\lfloor_i$, $\rfloor_i$ ($i = 1, 2, \ldots$) and predicates α. Suppose further that the universal computing system (UCS) consists of computing devices each of which has a certain information storage limit U_{npi} and a maximum number N_{npi} of operations it can perform from its list of operations. The algorithm proves to be executable if its execution requires a number N of operations for which $N \leq N_{npi}$ and the information storage capacity $V \leq V_{npi}$. A one- or two-position operation with two binary codes which

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does not exceed in complexity the operations of multiplication or division is termed a simple operation. A sequence of simple operations in which each operation can depend only on initial data and on the results of preceding operations is termed a cortege. Any algorithm may be represented by various corteges of simple operations. A collection of simple operations executed simultaneously and independently of each other is termed a p-operation; the number of these simple operations is termed the height t of the p-operation. The p-cortege is determined by analogy with the cortege. The number of p-operations entering in a p-cortege is termed length h of the p-cortege, and the maximum height of its component p-operations is termed the height L of the p-cortege. The total number $W = \sum_{j=1}^{h} t_j$ of simple operations entering in all p-operations is termed the volume W of the p-cortege. The relation of the height of a p-operation to its ordinal number in the p-cortege is termed the stepwise distribution function. The algorithm presented as a cortege of p-operations is termed the p-algorithm. The p-cortege is termed compressed if its first p-operation includes all the operations dependent on initial data while any subsequent p-operation consists exclusively of the operations dependent on at least one operation entering in the immediately preceding p-operation. The p-cortege is termed degenerate if every one of its p-operations contains only one simple operation. The family of p-corteges realizing a given algorithm contains a unique compressed p-cortege; its

length h_m is minimal. The maximal length h_{np} is displayed by a degenerate p-cortege. On adding to each operation dummy operations, it is possible to obtain a rectangular p-cortege in which all the operations have the height L. The sequences of elements of such a matrix, one from each solumn, are termed the corteges of the concerned p-cortege. The subsets of L corteges such that each p-operation enters into a given subset only one time are termed the covers of the p-cortege. The number of operations of cortege k_j on which the operations of cortege k_i directly depend is termed the measure of dependence of the corteges k_i and k_j of a given cover. These numbers c'_{ij} form a square matrix of the order of L (the matrix of connectedness with respect to operations); the sum c' of all the elements of this matrix (it is assumed that $c'_{ii} = 0$) is termed the connectedness of the cover with respect to operations. The matrix c''_{ij} of connectedness of the cover with respect to the source information is analogously determined; here c''_{ij} is the number of different codes transmitted from cortege k to cortege k_i. The sum c''_{ij} of all the elements (it is assumed that $c''_{ii} = 0$) is termed the connectedness of the cover with respect to source information. The sum $c = c' + c''$ is termed the connectedness of the cover and the sum of matrices c'_{ij} and c''_{ij} is termed the cover matrix. The scheme of the p-algorithm is termed constructed if the following factors are determined: the pertinent p-cortege, its cover, the distribution of source information between the corteges, and the

ACC NR: AR6026520

connectedness matrices c'_{ij} and c''_{ij}. For a given p-algorithm it is possible to construct a discrete characteristic function L = f (h) consisting of points on the plane h, L. These points, and only these, belong in the union $\mathfrak{M} = \mathfrak{M}_1 \cup \mathfrak{M}_2$ of sets $\mathfrak{M}_1$ and $\mathfrak{M}_2$ of points on the plane h, L, where set $\mathfrak{M}_1$ consists of points h, L* and L* is the minimum width of p-corteges from the subfamily of p-corteges with the length h; analogously $\mathfrak{M}_2$ is the set of points h*, L where h* is the minimum length of p-corteges from the subfamily of p-corteges with the width L. It is proved that set $\mathfrak{M}$ is monotonic; thus, L = f (h) is a function determinable at points h_m, $h_m + 1$, ..., h_{np}. The ratio $\delta = W/Lh$ of the volume of the p-cortege to the product of its length and width is termed the efficiency of the p-cortege. p-Corteges with $\delta = 1$ are termed efficient; they correspond to efficient points of the characteristic function. The principal point of the characteristic function is the point with the largest value of L; suppose this value is L_g. The part of the characteristic function for which $1 \leq L \leq Lg$ is termed the effective region. The following proposition is proved: let there be a p-cortege with a specified stepwise distribution function $i_j = \varphi(j)$. Then, if there exists a common divisor L of the numbers i_j, this information can be used to construct an effective p-cortege. The p-cortege formed by means of the replacement of each p-operation of the p_0-cortege with a sequence of p-operations which all are of the length L, with the latter not exceeding L, is termed the L-development of the p_0-cortege.

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ACC NR: AR6026520

The following proposition is also proved: if L_c is a multiple of L, then on L-development of a p-cortege of the width L_c the effectiveness factor does not decrease, i. e. $\delta \geq \delta_c$. The general scheme for the solution of problems by means of UCS is discussed from the standpoint of formulation of a problem, selection of its algorithm, construction of its graph scheme, determination of the essential volume of information, selection of the covering for the p-cortege, compilation of the flowchart of the p-algorithm, and compilation of a program for the solution of the problem by means of UCS. 7 illustrations. Bibliography of 21 titles. B. M. Naymark. [Translation of abstract]

SUB CODE: 09, 12

Card 5/5

ACC NR: AR6021231 SOURCE CODE: UR/0271/66/000/003/B005/B005

AUTHOR: Kosarev, Yu. G.

TITLE: A method for solving problems on universal computing systems

SOURCE: Ref. zh. Avtomat telemekh i vychisl tekhn, Abs. 3B47

REF SOURCE: Sb. Vychisl. sistemy, Vyp. 17, Novosibirsk, 1965, 61-99

TOPIC TAGS: computer calculation, algorithm, computer memory, computer language

ABSTRACT: It is assumed that the algorithm is written in the form of a finite string composed of a given set of operators, left and right curved brackets, and predicates. A universal computing system consists of units each possessing a maximum volume of stored information and a maximum number of realizable operations in its repertoire. [Translation of abstract] 7 illustrations and bibliography of 21 titles. B. N.

SUB CODE: 09,12

Card 1/1 UDC: 518.5:681.142.32.001

ACC NR: AR6021234 SOURCE CODE: UR/0271/66/000/003/B009/B009

AUTHOR: Yevreinov, E. V.; Kosarev, Yu. G.

TITLE: A matrix p language for describing parallel algorithms

SOURCE: Ref. zh. Avtomat telemekh i vychisl tekhn, Abs. 3B82

REF SOURCE: Sb. Vychisl. sistemy. Vyp. 17, Novosibirsk, 1965, 100-105

TOPIC TAGS: computer language, algorithmic language, computer programming

ABSTRACT: A matrix language is proposed for describing parallel algorithm flowcharts. Simple and generalized operators are used as language elements. The latter represent a sequence of several simple operators, if one and if only one of them has an external input: at any moment of time only one such operator is executed; after a finite number of steps, all other simple operators are executed. A p-algorithm flowchart is established. Several possible ways of writing p-algorithms in terms of the matrix language are discussed. It is indicated that to ascertain the relationship between computation branches, a p-algorithm flowchart can be produced in the form of graphs. As an example, the multiplication of two matrices is considered. [Translation of abstract] Bibliography of 9 titles. Yu. U.

SUB CODE: 12,09

Card 1/1 UDC: 518.5:681.142.32.001

SUB CODE: 09,12

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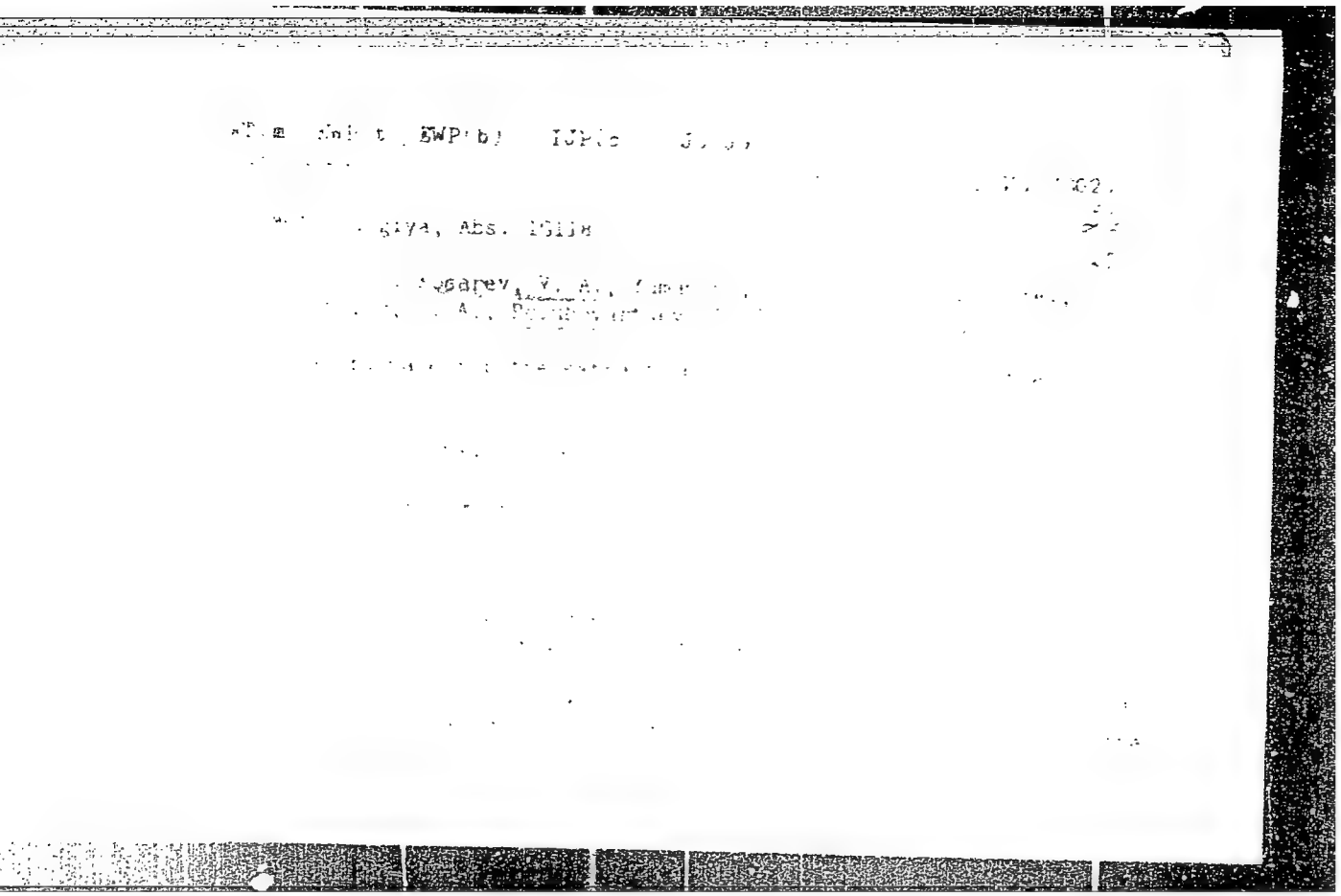

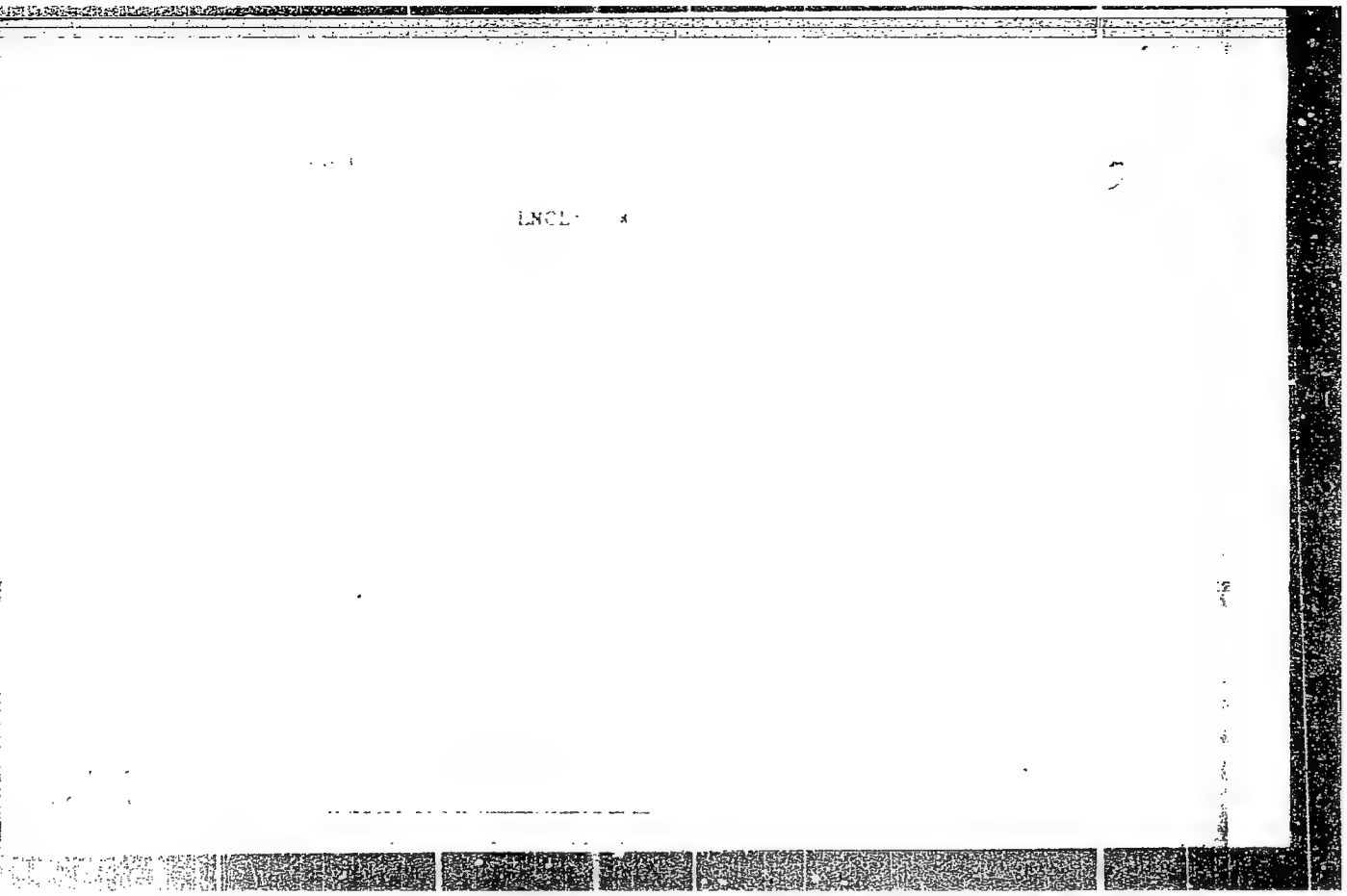

GALKIN, N.P.; SUDARIKOV, B.N.; ZAYTSEV, V.A.; VIASOV, D.A.; KOSAREV, V.G.

Properties of uranium hexafluoride in organic solvents. Atom. energ. 10 no.2:143-148 F '61. (MIRA 14:1)
(Uranium fluoride)

KOSAREV, V, K.

235T47

USSR/Electricity - Distribution Systems Aug 52

"Experience in the Introduction of Semiclosed and Closed Circuits Into City Electric Power Networks," A. P. Shcheglov, Engr V. K. Kosarev, Engineers, Leningrad Cable Network

"Elektrichestvo" No 8, pp 76-80

Notes the inacceptability of open system for modern city power network. Notes favorable operating experience with a semiclosed network and lists its deficiencies. Reviews results of tests and operation of exptl sections of closed networks. Article is intended to stimulate discussion. Submitted 2 Feb 52.

235T47

RYABKOV, Aleksandr Yakovlevich [deceased]; BOROVIKOV, V.A.; KOSAREV, V.K.; KHODOT, G.A.; KARPOV, F.F., red.; BORUNOV, N.I., tekhn.red.

[Electric nets and systems] Elektricheskie seti i sistemy. Izd.4, perer. i dop. V.A.Borovikovym, V.K.Kosarevym, G.A.Khodotom. Moskva, Gos.energ.izd-vo, 1960. 511 p. (MIRA 13:2)
(Electric networks)

BOROVIKOV, Vasiliy Aleksandrovich; KOSAREV, Vladimir Kuz'mich; KHODOT, Georgiy Aleksandrovich; SLAVIN, M.I., kand. tekhn.nauk, retsenzent; DOROKHOVA, A.I., inzh., retsenzent; GESSEN, V.Yu., doktor tekhn. nauk, red.; SOKOLEVA, Ye.M., tekhn. red.

[Electrical networks and systems] Elektricheskie seti i sistemy. Moskva, Gosenergoizdat, 1963. 459 p. (MIRA 16:8)
(Electric lines--Overhead)

KOSAREV, ENG. V. M., KHODOROV, YE. I.

Cement Industries

Control of coating formation in rotating ovens, with the aid of artificial cooling.
TSement 18 No. 4, 1952.

9. Monthly List of Russian Accessions, Library of Congress, December 1952, Uncl.

KOSAREV, V.M.

Snow survey methods in the Central Asian mountains. Trudy Tbil. NIGMI no.3:13-21 '58. (MIRA 11:10)

1. Tashkentskaya nauchno-issledovatel'skaya geofizicheskaya observatoriya.
(Soviet Central Asia--Snow)

L 15743-66 EWT(m)/EWP(t)/EWP(b) IJP(c) JD

ACC NR: AP6000869 SOURCE CODE: UR/0181/65/007/012/3641/3643

AUTHOR: Gorban', I. S.; Kosarev, V. M.

ORG: Kiev State University im. T. G. Shevchenko (Kiyevskiy gosudarstvennyy universitet)

TITLE: On the properties of the fine structure of the absorption spectrum in gallium phosphide crystals

SOURCE: Fizika tverdogo tela, v. 7, no. 12, 1965, 3641-3643

TOPIC TAGS: gallium compound, absorption spectrum, fine structure, absorption edge, exciton absorption, crystal absorption

ABSTRACT: The authors present results of quantitative investigations of the absorption spectrum of GaP at different temperatures. On the basis of the hypothesis of Ye. F. Gross et al. (DAN SSSR, v. 153, 574, 1963) that the spectral distance from the edge of the last step on the absorption curve to the point of inflection should be equal to the exciton dissociation energy, the authors deduce from the experimental data (Fig. 1) a formula for the edge absorption as a function of the photon energy and the temperature. This formula is shown to agree with the experimental data, and disagreement indicates that the absorption in GaP has an exciton-phonon nature. The 2.315 ev band, with half-width 0.004 ev, observed at 103K is situated where the exciton band would be observed if the direct transition were allowed. The appearance of this band is attributed to violation of the selection rules with respect to the

Card 1/2

Card 2/2

L 10156-63 EWT(1)/EWG(k)/BDS/EEC(b)-2--AFFTC/ASD/ESD-3/
SSD--Pz-4--AT
ACCESSION NR: AP3000320 S/0048/63/027/005/0675/0678

66
64

AUTHOR: Gorban', I. S.; Kosarev, V. M.

TITLE: Radiative photoluminescence quenching in lead iodide crystals [Report; Eleventh Conference on Luminescence held at Minsk 10-15 Sept. 1962]

SOURCE: Izvestiya AN SSSR. Seriya fizicheskaya, v. 27, no. 5, 1963, 675-678

TOPIC TAGS: luminescence, radiative luminescence quenching, lead iodide

ABSTRACT: The absorption spectra of lead iodide crystals exhibit structure at the long wavelength edge, which is associated with exciton states. The structure differs for different crystals depending on the method of preparation (growth from melt or sublimation). The same thing is true of the several bands in the luminescence spectrum. The reflection spectra of different crystals are consistent with the absorption spectra. Detailed investigation of the luminescence of PbI sub 2 shows that there exist two types of crystals; one with a double short wavelength band; the other with a single band. The splitting of the short wavelength luminescence band and doubling in the absorption spectrum

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are attributed to the existence of two modifications in the same crystal, one occupying the bulk of the crystal, the other concentrated at the surface and near dislocations and other defects. This is evinced by photochemical transformations: under continuing UV irradiation at 77°K the greenish emission changes to orange as a result of quenching of the shortest wavelength luminescence band. The time variation is nonlinear; that is, the effect exhibits saturation. Restoration of the quenched luminescence was also studied. It is characterized by an exponential function with the activation energy for thermal destruction of the photochemical quenching centers in the exponent. The activation energy was evaluated. On the basis of the photoluminescence characteristics lead iodide crystals may be classified as photochemically active or inactive. The active ones are capable of "remembering" light signals. Orig. art. has 3 figures.

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Card 2/2

KOSAREV, V. N. Cand Tech Sci

Dissertation: "Investigation of the Effect of the Admission Lead on the Dynamic and Economical Indexes of a Tractor Diesel Engine Equipped with Universal Regulator."

26/6/50

Moscow Inst for Mechanization and Electrification of Agriculture imeni V. M. Molotov.

SO Vecheryaya Moskva
Sum 71

KOSAREV, V.P.

Growing creative activity of innovators and inventors. Tekst. prom. 19 no.7:92-93 Jl '59. (MIRA 12:11)

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